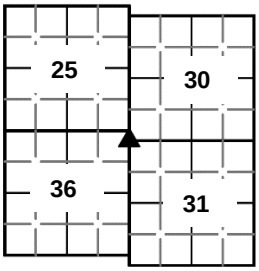
MONUMENT RECORD

Corner ID: **Polk_A21**

Section Corner

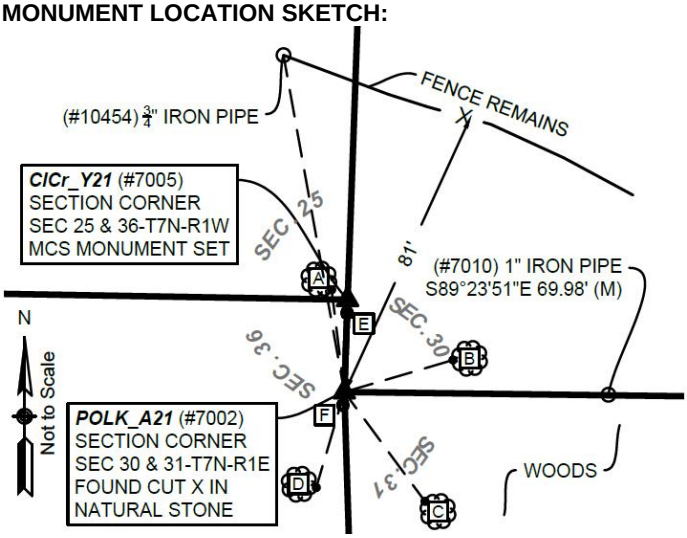
Sections 30 & 31 - T07N-R01E, 2nd P.M.

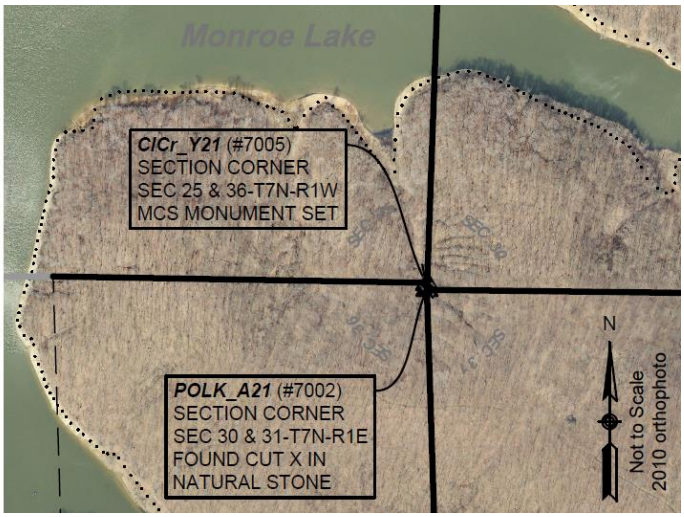
Polk Township, Monroe County, Indiana



MONUMENT: *Describe monument set or found (Include material type, scribing, distance above/below grade, dimensions.)*
Deep cut X in natural sandstone boulder.

MONUMENT LOCATION SKETCH:





WITNESS MONUMENT TIES: *Describe at least three new BT's and/or witness objects established or work done to preserve existing evidence. All ties to new Bearing Trees (BTs) are a mag nail set in a 1-1/2" plastic washer stamped "SURVEY MARKER - DO NOT REMOVE" and hack mark at the root crown (less than 12" above ground) perpendicular to the center of the tree, unless otherwise noted. BT diameters are noted as dbh and are measured approximately 4.5' above ground. Bearings and distances were measured from the monument to the mag nail.*

ID	*Bearing*	*Distance*	*Description*
A	N 7° W	27.3'	Mag nail and washer set in hack 0.8' above grade in the southeast side of a 20.5" maple
B	N 74° E	30.0'	Mag nail and washer set 1.0' above grade in the west side of a 16" tulip poplar. We also set a mag nail and washer in a hack 1.1' above grade in the northeast side of the same tree
C	S 36° E	36.0'	Mag nail and washer set in hack 1.2' above grade in the northwest side of an 18" beech
D	S 16° W	26.4'	Mag nail and washer set in hack 1.2' above grade in the east side of a 15" beech
E	N 2° E	20.9'	Monroe County "PROTECT NEARBY SURVEY MARKER" sign attached 3.2' above grade on the west side of a 5-foot steel t-post
F	S 6° W	3.5'	Monroe County "PROTECT NEARBY SURVEY MARKER" sign attached 3.2' above grade on the east side of a 5-foot steel t-post
ClCr_Y21	N 2°02'16" E	24.46'	Deep cut "X" in natural sandstone boulder
#7010	S 89°23'51" E	69.98'	1" thin-walled galvanized iron pipe found 0.6' above grade
#10454	N 10°15'43"W	90.62'	¾" galvanized iron pipe found 0.5' above grade at the base of the hill and at the intersection of east and north fence

OFFICE OF THE MONROE COUNTY SURVEYOR • Trohn Enright-Randolph
119 W 7th Street, Bloomington, IN 47404 • 812-349-2570 • surveyorsoffice@co.monroe.in.us

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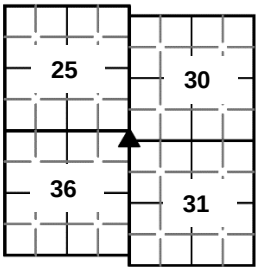

PHOTO IDENTIFIED: *Photo Date:* 7/30/2019

Photo Orientation & Description: Cut X at Polk_A21 after cutting deeper

Photo Orientation & Description: Looking south at Polk_A21

EXISTING SURVEY HISTORY *Include as much detail and history of the corner as known at the time of perpetuation*

ORIGINAL GOVERNMENT SURVEY:

Year Surveyed: 4/1/1814 *By:* Arthur Henrie
Where filed or recorded: MCS Original Notes page 297
Original monument: Wood post
Bearing Trees or Reference Monuments:

Species	*Dia.*	*Bearing*	*Distance*
Beech	6"	N 46° E	5 lks
Beech	6"	N 61° W	14 lks

Notes: Offset corner is 37 links north

SUBSEQUENT CORNER RESTORATION:

Date Surveyed: 4/3/1845 *By:* James Spencer, MCS
Where filed or recorded: MCSO LSB 1, pg 83
Original monument: Not indicated
Bearing Trees or Reference Monuments: No witnesses

SUBSEQUENT CORNER RESTORATION:

Date Surveyed: 11/24/1881 *By:* M. Buskirk, MCS
Where filed or recorded: MCSO LSB 2, pg 350
Original monument: "Established corner"
Bearing Trees or Reference Monuments:

Species	*Dia.*	*Bearing*	*Distance*
Poplar	24"	N 71° E	15.5 lks
Beech	10"	S 69° W	15.75 lks

Notes:

SUBSEQUENT CORNER RESTORATION:

Date Surveyed: 1960s *By:* US Army Corps of Engineers
Where filed or recorded: Monroe Reservoir Base Real Estate Maps, Sheet 3
Original monument: Iron Pipe (P.I.)
Bearing Trees or Reference Monuments:

Species	*Dia.*	*Bearing*	*Distance*
Beech	18"	N 83° 02' E	39.7'
Beech	10"	S 56° 01' E	23.5'
Beech	6"	S 51° 23' W	12.6'

Notes: All References are to a nail in tree

OTHER SURVEY HISTORY: *Include details such as surveyor name, date, recording info, monument description, etc.*

There is an incomplete Land Corner Record on file for this corner at the Hoosier National Forest from 1973. The corner record is essentially limited to the 'Evidence of Subsequent Corner Restoration Found" section, which was completed by H. Deaton in 1973 and says: *"Found evidence of recent survey along N. section line. Followed red ribbon and wooden stake to Section Corner marked by a steel pipe. A wooden stake beside pipe read NW corner of Section 31."* We are unsure about the origin of this pipe because the Lee Utt survey says that a cut cross was set at this corner and shows a set iron pipe 9.34 feet south.

The Lake Monroe maps all depict this as a common corner between Sections 25/36 and 30/31. The original survey notes state that the wooden post corner for Sections 30/31 was set 37 links (24.42 feet) south of the post corner of Sections 25/36. We discussed this corner with Bob Stone and Darren Norrington, both surveyors with the Hoosier National Forest. In their opinion, the mention of the pipe on the 1973 Land Corner Record is not sufficient evidence to accept it.

ORIGINAL OR SUBSEQUENT SURVEY EVIDENCE FOUND: *Include, search area or areas, search procedure, etc.*

Date of Field work/Search: 4/8/2019 & 7/30/19 *By:* R.Oser, C.Raley, T.Enright-Randolph *Monument Found:* Cut + in natural stone *BTs or Reference Objects Found:* None *Project #:* T07NR01W36 *Field Book:* 51/80 & 53/52 *Notes:* We originally located a 3/4" iron pipe (#10454) in line with very distinct fence remains to the east and close to fence remains to the north at what we assumed was the corner. The 3/4" iron pipe later proved to be a US Army Corps of Engineers monument on the Fee Take Line for Monroe Lake.

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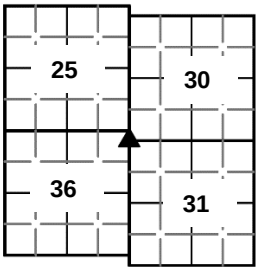


We obtained a copy of a 1972 boundary survey for Ihrer by Lee Utt, on file in the Monroe County Surveyor's Office as Reference survey ID000533. The Utt survey has a hand-written note that says a cut cross was set on natural stone at this corner. We found the cut cross in a natural sandstone boulder. The cross was already distinct, but we deepened it with an angle grinder. We also calculated and staked out to several additional search points, including:
1) the intersection of the west extension of the line formed between the monument found at Polk_C21 through Polk_B21 with the line formed between the monument found at Polk_A20 and the Township corner to the south,
2) a single proportion between Polk_A20 and the Township corner,
3) a point based on the coordinates provided for this corner on the Lake Monroe Base Real Estate Maps, sheet 3,
4) a point based on the bearings and distances provided on the Lake Monroe Monumentation Maps, sheet 3, and
5) a point based on the bearings and distances provided on the Lake Monroe Real Estate Segment Maps, sheet 3.
We found a thin-walled 1" galvanized iron pipe with the remains of red flagging 0.6' above grade, 70 feet east of the cut + and approximately 30 feet east of our easternmost calculated point. The origin of the 1" galvanized iron pipe is unknown, and we did not accept it.

OTHER EVIDENCE: *Describe corner location relative to nearby features and how to reach the corner location – note fences, roads, timber cutting lines, mow lines, clearings, plantings, streams, topo changes, etc.*
From the gravel pull-off at the Hoosier National Forest parcel across the road from the trailer at 5368 E Stewart Road, walk north, northwest, and west along the old roadbed for approximately half a mile. The corner is about 425 feet north of the old road at the bottom of a steep ravine.

MONUMENT PRESERVATION: *Describe work done to preserve existing monument.*
We set a five-foot t-post with a yellow Monroe County “PROTECT NEARBY SURVEY MARKER” sign 3.5 feet south of the monument and approximately in line with the rebar at ClCr_Y21.

THEORY OF LOCATION: *Describe the theory of location for acceptance of this monument. Include monument origin and associated uncertainty.*
We accepted the cut + per the 1972 Lee Utt survey for Ihrer with 69.98 feet of associated uncertainty.

GEODETIC COORDINATES: *Northing:* 1369193’, *Easting:* 3129427’

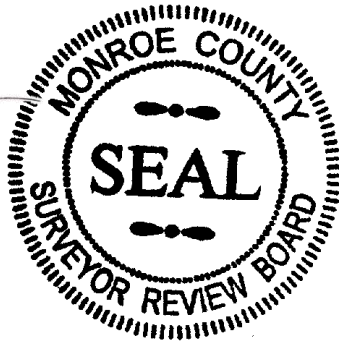
BASIS OF GEODETIC COORDINATES: The basis of bearings is Grid North System NAD83 (2011)/Indiana West NAVD 88, Epoch 2010.0000, geoid12b_conus.db3, US Survey Feet. Tied to NSRS using the JAVAD GNSS Data Online Processing Service (DPOS) to post-process static observations collected with a Javad Triumph 2 base. Positional values of this corner were determined from static GNSS and RTK GNSS (Javad Triumph LS Rover) observation.

This document is not complete without the associated Corner Perpetuation plat and report of survey for Section 36-T7N-R1W by Rachel Oser of the Monroe County Surveyor's Office dated August 5, 2019 and recorded as Instrument Number 2019011075 in the office of the Monroe County Recorder.

CERTIFICATIONS:

Date: August 5, 2019
Rachel Oser, State of Indiana
PS No.21100022

Date: August 8, 2019
Trohn Enright-Randolph
Monroe County Surveyor



Accepted by the Monroe County Surveyor Review Board on August 6, 2019